

target was linked to the herpes simplex virus (HSV) promoter and used in a myogenic vector system (MSV) of the invention. The MSV are capable of expressing any specific nucleic acid sequence in myogenic tissue. This involves a regulatable myogenic vector system. The vectors can be used for the expression of eg. insulin-like growth factor (IGF-I, IGF-II, insulin growth factor binding protein, growth hormone, growth hormone releasing hormone, apolipoprotein A-I, glycogen phosphorylase, aldehyde-antitrypsin or dystrophin. They can be used for the supply of polypeptide into human, animal or tissue culture, for gene replacement or for vaccine production. They can be used for eg. treating muscle atrophy in aging humans or induced by spinal column injuries or neuromuscular diseases, preventing or treating growth disease. When the vector encode growth hormone they can be used for increasing milk or meat production in animals. (Updated on 09-JAN-2003 to add missing OS field.) (Updated on 25-MAR-2003 to correct PN field.)

Sequence 27 BP; 5 A; 6 C; 11 G; 5 T; 0 U; 0 Other; SQ

Query Match 100%; Score 27; DB 2; length 27; Best Local Similarity 100%; Pred. No. 0.018; Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0; OS

QY 1 GGTGACTCACCGGGTGAAGGGCATT 27

Db 1 GGTGACTCACCGGGTGAAGGGCATT 27

RESULT:2

AAX88057 AAX88057 standard; cDNA; 27 BP.

ID AAX88057; AC AAX88057; XX

XX 08-SEP-1999 (first entry)

DE Vitamin D regulatory element (VDRE) cDNA.

XX

RNA stability element; plasmid pIG0335; expression vector; treatment; disease; muscular disease; systemic disease; aging; trophic factor; haemophilia; clotting factor; atherosclerosis; atherosclerotic; cardiovascular; cerebrovascular; peripheral-vascular disease; hormone deficiency; diabetes; transgenic animal; carcinogen; regulatory element; livestock improvement; immune response; ss.

XX OS Unidentified.

XX US5925564-A.

XX 20-JUL-1999.

XX 07-JUN-1995; 95US-00472809.

XX PR 06-NOV-1991; 91US-00789919.

XX PR 09-MAR-1994; 94US-00209846.

XX (BAYL) BAYLOR COLLEGE MEDICINE.

XX O'malley BW, Demayo FJ, Schwartz RJ;

XX WPI; 1999-418276/35.

XX

PT New expression vector system useful for gene therapy.

XX Disclosure; Col 39:40; 67pp; English.

XX

This invention describes novel expression vector systems containing RNA stability elements from 3' flanking sequences used for establishing expression of a nucleic acid sequence within a tissue. The vectors also facilitate enhanced expression in tissues and target expression with tissue specificity. The expression vectors can be used to treat diseases through gene therapy by targeting the vector to specific tissues. Diseases that can be treated include muscle atrophy associated with

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Query Match 100%; Score 27; DB 2; length 27; Best Local Similarity 100%; Pred. No. 0.018; Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0; OS

QY 1 GGTGACTCACCGGGTGAAGGGCATT 27

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RNA stability element; plasmid pIG0335; expression vector; treatment; disease; muscular disease; systemic disease; aging; trophic factor; haemophilia; clotting factor; atherosclerosis; atherosclerotic; cardiovascular; cerebrovascular; peripheral-vascular disease; hormone deficiency; diabetes; transgenic animal; carcinogen; regulatory element; livestock improvement; immune response; ss.

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CC neurological, muscular or systemic disease, aging by causing tissues to express and secrete clotting factor into the circulation, atherosclerosis and arteriosclerotic cardiovascular, cerebrovascular or peripheral-vascular disease by causing tissues to express factors involved in tissue metabolism. They can be used to replace genes of inherited genetic defects or acquired hormone deficiencies e.g. diabetes. To transform cells to produce particular proteins or RNA in vitro. To create transgenic animals which can be used for research into human diseases, assessing novel therapeutic methods, assessing the effect of chemical and physical carcinogens and for studying the effect of genes and genetic regulatory elements or livestock improvement. They can be used to induce an immune response. These vectors provide controlled expression of the genes they carry and produce a significantly high level of expression. Using 3'UTR sequences reduces the decay rates of the mRNAs encoded by the vectors which causes increased expression

CC

RESULT:3

AAP85650 AAP85650 standard; DNA; 57 BP.

ID AAP85650; AC AAP85650; XX

XX 25-JUN-2001 (first entry)

DE Human osteocalcin vitamin D response element #2.

XX

Naftoset; vitamin D response element binding protein; VDRE-BP; lymphoma; vitamin D resistance; osteoporosis; hypercalcæmia; vitamin D toxicity; glucocorticoid mediated disorder; granuloma forming disease; vitamin D intoxication; steroid hormone hypersecretion; gene therapy; ds.

XX OS Homo sapiens.

XX

Key Location/Qualifiers

FT misc_feature 14..19

FT /*tag= a /note= "response element half site"

FT misc_feature 23..29

FT /*tag= b /note= "response element half site"

FT misc_feature 20-SEP-2000; 2000WO-US02844.

XX WO200121649-A2.

XX PD 29-MAR-2001.

XX

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XX Disclosure; Col 39:40; 67pp; English.

XX

This invention describes novel expression vector systems containing RNA stability elements from 3' flanking sequences used for establishing expression of a nucleic acid sequence within a tissue. The vectors also facilitate enhanced expression in tissues and target expression with tissue specificity. The expression vectors can be used to treat diseases through gene therapy by targeting the vector to specific tissues. Diseases that can be treated include muscle atrophy associated with

CC neurological, muscular or systemic disease, aging by causing tissues to express and secrete clotting factor into the circulation, atherosclerosis and arteriosclerotic cardiovascular, cerebrovascular or peripheral-vascular disease by causing tissues to express factors involved in tissue metabolism. They can be used to replace genes of inherited genetic defects or acquired hormone deficiencies e.g. diabetes. To transform cells to produce particular proteins or RNA in vitro. To create transgenic animals which can be used for research into human diseases, assessing novel therapeutic methods, assessing the effect of chemical and physical carcinogens and for studying the effect of genes and genetic regulatory elements or livestock improvement. They can be used to induce an immune response. These vectors provide controlled expression of the genes they carry and produce a significantly high level of expression. Using 3'UTR sequences reduces the decay rates of the mRNAs encoded by the vectors which causes increased expression

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FT /*tag= b /note= "response element half site"

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XX WO200121649-A2.

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CC neurological, muscular or systemic disease, aging by causing tissues to express and secrete clotting factor into the circulation, atherosclerosis and arteriosclerotic cardiovascular, cerebrovascular or peripheral-vascular disease by causing tissues to express factors involved in tissue metabolism. They can be used to replace genes of inherited genetic defects or acquired hormone deficiencies e.g. diabetes. To transform cells to produce particular proteins or RNA in vitro. To create transgenic animals which can be used for research into human diseases, assessing novel therapeutic methods, assessing the effect of chemical and physical carcinogens and for studying the effect of genes and genetic regulatory elements or livestock improvement. They can be used to induce an immune response. These vectors provide controlled expression of the genes they carry and produce a significantly high level of expression. Using 3'UTR sequences reduces the decay rates of the mRNAs encoded by the vectors which causes increased expression

The present invention provides the protein and coding sequences for two vitamin D response element binding proteins (VDR-BPs) from the marmoset. These confer vitamin D resistance on the primate, a characteristic which is associated with high circulating levels of other steroid hormones. The sequences provided by the invention can be used to identify treatments for osteoporosis, hypercalcemia, vitamin D intoxication, steroid hormone hypersecretion, glucocorticoid mediated disorders, lymphoma and granuloma forming diseases. The present sequence is an example of a vitamin D response element. Note: The present sequence is stated in the specification as being the same as that shown as SEQ ID NO: 6 on page 46 (see AAF05391). However, the sequences differ at the last position.

Sequence 57 BP; 12 A; 18 C; 17 G; 10 T; 0 U; 0 Other;

Query Match	92.6%	Score	25	DB	4	Length	57
Best Local Similarity	92.6%	Score	25	DB	4	Length	57
Matches	25	Score	100.0%	Pred.	No.	0.15	0
Qy	1	Score	92.6%	Mismatches	0	Indels	0
Db	3	Score	92.6%	Gaps	0	Indels	0
	GGTGACTCACGGGGTACCGGGCA	Score	25	Gaps	0	Indels	0
	GGTGACTCACGGGGTACCGGGCA	Score	27	Gaps	0	Indels	0

SQ

RESULT 4

AAV18523

ID AAV18523 standard; DNA; 53 BP.

XX

AC AAV18523;

XX

DT 11-JUN-1998 (first entry)

XX

DE Primer VDRE(OC) for rat vitamin D receptor cDNA.

XX

KW Rat; vitamin D receptor; isoform; protein; VR1; VDRO; diagnosis;

KW dominant negative receptor; signal transmission channel;

KW bone density disorder; screening; PCR primer; ss.

XX

OS Synthetic.

OS Rattus rattus.

XX

PN WO9747172-A1.

XX

PD 18-DEC-1997.

XX

PF 10-JUN-1997; 97WO-1B000947.

XX

PR 10-JUN-1996; 96JP-00194179.

XX

DA (CHUS) CHUGAI SEIYAKU KK.

XX

Kato S, Ueno K;

XX

DR WPI; 1998-051917/05.

XX

PT DNA encoding a vitamin D receptor isoform protein - useful for bone density determination and for screening substances for vitamin D activity.

XX

PS Example 3: Page 18; 46pp; Japanese.

XX

CC The present sequence was used in the preparation of the cDNA encoding the rat vitamin D receptor isoform protein (VDR). The isoform differs from the normal receptor (VR1) in having the vitamin D response element curtailed by 86 residues, and having an extra 19 residues inserted at the C-terminal of this element. It acts as a dominant negative receptor in the vitamin D signal transmission channel. The isoform protein can be used to diagnose bone density disorders, and screen for substances having potential vitamin D-like activity.

CC Sequence 53 BP; 8 A; 13 C; 21 G; 11 T; 0 U; 0 Other;

CC SQ

Query Match 85.2%; Score 23; DB 2; Length 53;

OS Homo sapiens.
 XX
 FH Key location/Qualifiers
 FT misc_feature 14. .19
 FT /*tag= a
 FT /note= "response element half site"
 FT 23. .29
 FT /*tag= b
 FT /note= "response element half site"
 XX
 PN WO200121649-A2.
 XX
 PD 29-MAR-2001.
 XX
 PR 20-SEP-2000; 2000WO-US025844.
 XX
 PR 22-SEP-1999; 99US-00400967.
 XX
 PA (CEDA-) CEDARS SINAI MEDICAL CENT.
 XX
 PI Adams JS;
 XX
 DR WPI; 2001-308082/32.
 XX
 PT New vitamin D response element-binding protein (VDRE-BP) useful in
 PT modifying vitamin D receptor activity, in producing anti-VDRE-BP
 antibodies, in identifying agonists and antagonists of the protein, or in
 PT gene therapy.
 XX
 PS Example; Page 76; 81pp; English.
 XX
 CC The present invention provides the protein and coding sequences for two
 CC vitamin D response element binding proteins (VDRE-BPs) from the marmoset.
 CC These confer vitamin D resistance on the primate, a characteristic which
 CC is associated with high circulating levels of other steroid hormones. The
 CC sequences provided by the invention can be used to identify treatments
 CC for osteoporosis, hypercalcemia, vitamin D intoxication, steroid hormone
 CC hypersecretion, glucocorticoid mediated disorders, lymphoma and granuloma
 CC forming diseases. The present sequence is an example of a vitamin D
 CC response element. Note: The present sequence is stated in the
 CC sequence listing (see AAB85650). However, the sequences differ at the
 CC last position
 XX
 SQ Sequence 57 BP; 11 A; 18 C; 18 G; 10 T; 0 U; 0 Other;
 XX
 Query Match 85.2%; Score 23; DB 4; Length 57;
 XX
 Best Local Similarity 100.0%; Pred. No. 1.2;
 XX
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1 GGTGACTACCCGGTGACGGG 23
 XX
 DB 240 GGTGACTACCCGGTGACGGG 262
 XX
 RESULT 10
 AB258131
 ID AB258131 standard; DNA; 565 BP.
 XX
 AC AB258131;
 XX
 DT 22-APR-2003 (first entry)
 XX
 DE Human osteocalcin promoter.
 XX
 KW Human; osteocalcin; promoter; bone; tumour; prostate cancer; metastasis;
 XX
 KW gene therapy; diagnosis; prognosis; marker; cytostatic; ds.
 OS Homo sapiens.
 XX
 FH Key location/Qualifiers
 FT misc_signal 74. .91
 FT /*tag= a
 FT /note= "vitamin D response element"
 FT misc_signal 414. .431
 FT /*tag= c
 FT /note= "OSE2 element"
 FT misc_signal 515. .543
 FT /*tag= b
 FT /note= "OSE1 element"
 XX
 PN WC2003006621-A2.
 XX
 PD 23-JAN-2003.
 XX
 PR 12-JUL-2002; 2002WO-US022216.
 XX
 PR 13-JUL-2001; 2001US-0305360P.
 XX
 FT misc_RNA 229. .237
 FT /*tag= a

CC osteolysis, or osteolytic bone metastases. They are used to inhibit the
 CC formation of osteoclasts which resorb bone and to stimulate the growth of
 CC new bones. The OPCs and odontoprogenitor cells are useful for inhibiting
 CC osteolysis and for inducing differentiation of a bone marrow stromal
 CC cells. These cells are also used in gene therapy. The present sequence is
 CC human osteoblast-specific promoter DNA, osteocalcin promoter
 XX sequence 597 BP; 107 A; 190 C; 187 G; 113 T; 0 U; 0 Other;
 Query Match 85.2%; Score 23; DB 5; Length 597;
 Best Local Similarity 100.0%; Pred. No. 1.5;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTCACCGGGTGAACGGG 23
 Db 65 GGTGACTCACCGGGTGAACGGG 87

RESULT 13

ID AAD48137
 XX AAD48137 standard; DNA; 2650 BP.
 AC AAD48137;
 XX
 DT 24-FEB-2003 (first entry)
 XX
 DE Human pleiotrophin/OSF-1 DNA.
 XX
 KW Brain; tumour protein target; Tbt; ischaemic stroke; cancer; epilepsy;
 KW schizophrenia; depression; Alzheimer's disease; Parkinson's disease; headache;
 KW coma; vertigo; weakness; myasthenia gravis; cerebrovascular disorder;
 KW infection; multiple sclerosis; pregnancy; medical illness; vasotropin;
 KW metabolic deficiency; cerebroprotective; antidepressant; antibacterial;
 KW cytostatic; nootropic; analgesic; fungicide; virucide; pleiotrophin;
 KW OSF-1; human; gene; ds.
 XX
 OS Homo sapiens.

PH Location/Qualifiers
 PT 1542. .2048
 FT /*tag= a
 FT /product= "Human pleiotrophin/OSF-1 protein"
 XX
 WO200276510-A1.
 XX
 PD 03-OCT-2002.
 XX
 PP 22-MAR-2002; 2002WO-US008992.
 XX
 PR 23-MAR-2001; 2001US-00816703.
 PR 17-OCT-2001; 2001US-00983000.
 PA (AGY-T) AGY THERAPEUTICS INC.
 XX
 PI Mueller S, Melcher T, Chin DJ;
 XX
 DR WPI; 2003-029903/02.
 XX
 PT P-PSDB; AAE30342.
 XX
 PT Developing active agents that modulate the activity of a brain tumor
 PT protein target gene or gene product for treating e.g. stroke or cancer,
 PT comprises contacting an agent with a brain tumor protein.
 XX
 PS Claim 1; Page 130-132; 135pp; English.

CC The invention relates to a method for developing biologically active
 CC agents that modulate activity of a brain tumor protein target (Tbt) gene
 CC or gene product. The method is useful for developing biologically active
 CC agents that modulate the activity of a brain tumor protein target gene
 CC or gene product. Compounds that bind to the brain tumor proteins are
 CC useful for treating e.g. ischaemic stroke, brain cancer, epilepsy,
 CC schizophrenia, depression, Alzheimer's disease, Parkinson's disease,

CC Huntington's chorea, traumatic head injury, dementia, stupor, headache,
 CC coma, vertigo, weakness, myasthenia gravis, cerebrovascular disorders,
 CC infectious disorders (including fungal, bacterial, viral and parasitic
 CC infections), multiple sclerosis, and other complications associated with
 CC pregnancy, medical illness, alcohol and substance abuse, toxins and
 CC metabolic deficiencies. The brain tumour proteins may also be used to
 CC raise antibodies. The present sequence is human pleiotrophin/ OSF-1 DNA
 CC used to illustrate the method of the invention

XX Sequence 2650 BP; 639 A; 657 C; 649 G; 705 T; 0 U; 0 Other;
 SQ Query Match 85.2%; Score 23; DB 8; Length 2650;
 Best Local Similarity 100.0%; Pred. No. 1.7;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTCACCGGGTGAACGGG 23
 Db 343 GGTGACTCACCGGGTGAACGGG 365

RESULT 14

ID ADN06011
 XX ADN06011 standard; cDNA; 2650 BP.
 AC ADN06011;
 XX
 DT 01-JUL-2004 (first entry)
 XX
 DE Antipsoriatic cDNA sequence #1241.
 XX
 KW ds; gene; antipsoriatic; gene therapy; psoriasis; diagnosis.
 XX
 OS Homo sapiens.
 XX
 PN WO2004028479-A2.
 XX
 PD 08-APR-2004.
 XX
 PR 25-SEP-2003; 2003WO-US030907.
 XX
 PR 25-SEP-2002; 2002US-041406P.
 XX
 PA (GUTH) GENENTECH INC.
 XX
 PI Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
 PI Wu TD;
 XX
 DR WPI; 2004-305105/28.
 XX
 DR P-PSDB; ADN06012.
 XX
 PT New PRO nucleic acid or polypeptide, useful for preparing a
 PT pharmaceutical composition for diagnosing or treating psoriasis in a
 PT mammal.
 XX
 PS Claim 1; SEQ ID NO 2406; 3069pp; English.

CC The invention relates to novel polynucleotide and polypeptides for
 CC treating psoriasis or a sequence having at least 80% identity to the
 CC above sequences. The nucleic acid is useful for preparing a composition
 CC for diagnosing or treating psoriasis in a mammal. This sequence
 CC corresponds to one of the polynucleotides of the invention.

SQ Sequence 2650 BP; 639 A; 657 C; 649 G; 705 T; 0 U; 0 Other;
 PS Query Match 85.2%; Score 23; DB 12; Length 2650;
 Best Local Similarity 100.0%; Pred. No. 1.7;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTCACCGGGTGAACGGG 23
 Db 343 GGTGACTCACCGGGTGAACGGG 365

RESULT 15
 AB234742
 AB234742 standard; cDNA; 2657 BP.
 XX
 AB234742;
 XX
 DT 04-FEB-2003 (first entry)
 XX
 DB Coding sequence SEQ ID 100, downregulated in osteogenesis.
 KW Osteopathic; osteogenesis modulator; gene therapy; osteogenesis;
 KW osteoporosis; bone disease; downregulator; human; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200281745-A2.
 XX
 PR 17-OCT-2002.
 XX
 PR 05-APR-2002; 2002WO-1B002211.
 XX
 PR 05-APR-2001; 2001US-0281400P.
 XX
 PA (AVET) AVENTIS PHARMA SA.
 XX
 PI Garcia T, Roman Roman S, Baron R, Call K, Theilhaber J;
 PI Connolly T, Jackson A, Bushnell SB, Rawadi G;
 DR WPI; 2003-058567/05.
 PT Novel isolated nucleic acid upregulated/downregulated in osteogenesis,
 PT useful for bone disease therapy in subject.
 XX
 PS Claim 27; Page 126-127; 237PP; English.
 XX
 CC The present invention relates to novel nucleotide sequences, which are
 CC differentially expressed in models of osteogenesis upon being put in
 CC contact with a stimulator of osteogenesis. The present sequence is one
 CC such sequence. This sequence can be used for diagnosing osteoporosis/bone
 CC disease in a patient, promoting osteogenesis and/or preventing
 CC osteoporosis/bone disease. The present sequence encodes a secreted
 CC protein
 XX
 SQ Sequence 2657 BP; 640 A; 656 C; 648 G; 706 T; 0 U; 7 Other;
 SQ Query Match 85.2%; Score 23; DB 8; Length 2657;
 SQ Best Local Similarity 100.0%; Pred. No. 1.7;
 SQ Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GGTGACTCACCCTGGTGAACGGGG 23
 Db 343 GGTGACTCACCCTGGTGAACGGGG 365

Search completed: November 29, 2004, 14:21:32
 Job time : 403 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 13:45:01 ; Search time 89 Seconds

(without alignments) 215.633 Million cell updates/sec

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6: /cgn2_6/ptodata1/ina/backfiles.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULTS

Result No.	Score	Query Match Length	DB ID	Description
1	27	100.0	27	1 US-07-789-919A-2
2	27	100.0	27	1 US-08-209-846A-2
3	27	100.0	27	2 US-08-472-808B-2
4	27	100.0	27	3 US-08-438-205-2
5	23	85.2	301	5 PCU-US94-0559-2
6	18	67.4	140	4 US-10-141-634-1
7	18	66.7	624	4 US-09-489-039A-1930
8	18	66.7	768	4 US-09-489-039A-1930
9	18	66.7	4245	3 US-09-576-531-16
10	18	66.7	4305	4 US-09-087-031E-27
11	18	66.7	4307	3 US-09-103-40A-2
12	18	66.7	411529	3 US-09-103-40A-1
13	17.6	65.2	2138	3 US-09-056-556-183
14	17.6	65.2	2138	4 US-09-072-591-178
15	17.6	65.2	2138	4 US-09-072-591-178
16	17.4	64.4	7194	4 US-09-561-326-76
17	17.4	64.4	15420	4 US-09-061-321-54
18	17	63.0	790	4 US-09-076-554-795
19	17	63.0	2833	3 US-09-262-773-209
20	17	63.0	23071	3 US-09-282-773-210
21	17	63.0	430765	3 US-09-103-80A-2
22	17	63.0	4411529	3 US-09-103-80A-1
23	16.8	62.2	5917	4 US-09-780-175-17
24	16.6	61.5	321	4 US-09-401-063-348
25	16.4	61.5	14462	4 US-09-843-250-9
26	16.4	60.7	329	3 US-08-865-962-27
27	16.4	60.7	629	4 US-09-477-135A-123

SUMMARIES

RESULTS

Query Match	Length	DB ID	Description
US-07-789-919A-2	27	1	Sequence 1, Appli
US-07-789-919A-2	27	1	Sequence 2, Appli
US-07-789-919A-2	27	1	Sequence 3, Appli
US-07-789-919A-2	27	1	Sequence 4, Appli
US-07-789-919A-2	27	1	Sequence 5, Appli
US-07-789-919A-2	27	1	Sequence 6, Appli
US-07-789-919A-2	27	1	Sequence 7, Appli
US-07-789-919A-2	27	1	Sequence 8, Appli
US-07-789-919A-2	27	1	Sequence 9, Appli
US-07-789-919A-2	27	1	Sequence 10, Appli
US-07-789-919A-2	27	1	Sequence 11, Appli
US-07-789-919A-2	27	1	Sequence 12, Appli
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US-07-789-919A-2	27	1	Sequence 16, Appli
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US-07-789-919A-2	27	1	Sequence 19, Appli
US-07-789-919A-2	27	1	Sequence 20, Appli
US-07-789-919A-2	27	1	Sequence 21, Appli
US-07-789-919A-2	27	1	Sequence 22, Appli
US-07-789-919A-2	27	1	Sequence 23, Appli
US-07-789-919A-2	27	1	Sequence 24, Appli
US-07-789-919A-2	27	1	Sequence 25, Appli
US-07-789-919A-2	27	1	Sequence 26, Appli
US-07-789-919A-2	27	1	Sequence 27, Appli
US-07-789-919A-2	27	1	Sequence 28, Appli
US-07-789-919A-2	27	1	Sequence 29, Appli
US-07-789-919A-2	27	1	Sequence 30, Appli
US-07-789-919A-2	27	1	Sequence 31, Appli
US-07-789-919A-2	27	1	Sequence 32, Appli
US-07-789-919A-2	27	1	Sequence 33, Appli
US-07-789-919A-2	27	1	Sequence 34, Appli
US-07-789-919A-2	27	1	Sequence 35, Appli
US-07-789-919A-2	27	1	Sequence 36, Appli
US-07-789-919A-2	27	1	Sequence 37, Appli
US-07-789-919A-2	27	1	Sequence 38, Appli
US-07-789-919A-2	27	1	Sequence 39, Appli
US-07-789-919A-2	27	1	Sequence 40, Appli
US-07-789-919A-2	27	1	Sequence 41, Appli
US-07-789-919A-2	27	1	Sequence 42, Appli
US-07-789-919A-2	27	1	Sequence 43, Appli
US-07-789-919A-2	27	1	Sequence 44, Appli
US-07-789-919A-2	27	1	Sequence 45, Appli
US-07-789-919A-2	27	1	Sequence 46, Appli
US-07-789-919A-2	27	1	Sequence 47, Appli
US-07-789-919A-2	27	1	Sequence 48, Appli
US-07-789-919A-2	27	1	Sequence 49, Appli
US-07-789-919A-2	27	1	Sequence 50, Appli
US-07-789-919A-2	27	1	Sequence 51, Appli
US-07-789-919A-2	27	1	Sequence 52, Appli
US-07-789-919A-2	27	1	Sequence 53, Appli
US-07-789-919A-2	27	1	Sequence 54, Appli
US-07-789-919A-2	27	1	Sequence 55, Appli
US-07-789-919A-2	27	1	Sequence 56, Appli
US-07-789-919A-2	27	1	Sequence 57, Appli
US-07-789-919A-2	27	1	Sequence 58, Appli
US-07-789-919A-2	27	1	Sequence 59, Appli
US-07-789-919A-2	27	1	Sequence 60, Appli
US-07-789-919A-2	27	1	Sequence 61, Appli
US-07-789-919A-2	27	1	Sequence 62, Appli
US-07-789-919A-2	27	1	Sequence 63, Appli
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US-07-789-919A-2	27	1	Sequence 66, Appli
US-07-789-919A-2	27	1	Sequence 67, Appli
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US-07-789-919A-2	27	1	Sequence 69, Appli
US-07-789-919A-2	27	1	Sequence 70, Appli
US-07-789-919A-2	27	1	Sequence 71, Appli
US-07-789-919A-2	27	1	Sequence 72, Appli
US-07-789-919A-2	27	1	Sequence 73, Appli
US-07-789-919A-2	27	1	Sequence 74, Appli
US-07-789-919A-2	27	1	Sequence 75, Appli
US-07-789-919A-2	27	1	Sequence 76, Appli
US-07-789-919A-2	27	1	Sequence 77, Appli
US-07-789-919A-2	27	1	Sequence 78, Appli
US-07-789-919A-2	27	1	Sequence 79, Appli
US-07-789-919A-2	27	1	Sequence 80, Appli
US-07-789-919A-2	27	1	Sequence 81, Appli
US-07-789-919A-2	27	1	Sequence 82, Appli
US-07-789-919A-2	27	1	Sequence 83, Appli
US-07-789-919A-2	27	1	Sequence 84, Appli
US-07-789-919A-2	27	1	Sequence 85, Appli
US-07-789-919A-2	27	1	Sequence 86, Appli
US-07-789-919A-2	27	1	Sequence 87, Appli
US-07-789-919A-2	27	1	Sequence 88, Appli
US-07-789-919A-2	27	1	Sequence 89, Appli
US-07-789-919A-2	27	1	Sequence 90, Appli
US-07-789-919A-2	27	1	Sequence 91, Appli
US-07-789-919A-2	27	1	Sequence 92, Appli
US-07-789-919A-2	27	1	Sequence 93, Appli
US-07-789-919A-2	27	1	Sequence 94, Appli
US-07-789-919A-2	27	1	Sequence 95, Appli
US-07-789-919A-2	27	1	Sequence 96, Appli
US-07-789-919A-2	27	1	Sequence 97, Appli
US-07-789-919A-2	27	1	Sequence 98, Appli
US-07-789-919A-2	27	1	Sequence 99, Appli
US-07-789-919A-2	27	1	Sequence 100, Appli

ALIGMENTS

QY 1 GGTGACTCACCGGGTGAACGGGCATT 27

1 GGTGACTAACCGGGTGAACGGGCAATT 27

STREET: 633 West Fifth Street
SUIT: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

RESULT 2
US-08-209-846A-2
Sequence 2, Application US/08209846A

GENERAL INFORMATION:
Patent No. 576254
APPLICANT: Schwartz, Robert J.
APPLICANT: Demayo, Franco
APPLICANT: O'Malley, Bert W.
TITLE OF INVENTION: Expression Vector Systems and Methods of

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth St.
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/209,846

FILING DATE: 09-JUN-1994
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/789,919

FILING DATE: 06-NOV-1991
ATTORNEY/AGENT INFORMATION:

NAME: Knight, Matthew W.
REGISTRATION NUMBER: 36,846

REFERENCE/DOCKET NUMBER: 204/302

TELECOMMUNICATION INFORMATION:
TELEPHONE: 213-489-1600

TELEFAX: 213-955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 27 bases

TYPE: nucleic acid
STRANDEDNESS: single

TOROIDITY: linear
MOLECULE TYPE: cDNA

US-08-472-809B-2

Query Match 100.0%; Score 27; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.0012; Mismatches 0; Indels 0; Gaps 0;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTAACCGGGTGAACGGGCAATT 27

Db 1 GGTGACTAACCGGGTGAACGGGCAATT 27

RESULT 3
US-08-472-809B-2

Sequence 2, Application US/08472809B

GENERAL INFORMATION:
Patent No. 525564

GENERAL INFORMATION:
APPLICANT: Schwartz, Robert J.
APPLICANT: Demayo, Franco
APPLICANT: O'Malley, Bert W.

TITLE OF INVENTION: Expression Vector Systems and Methods of

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth St.
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/438,265

FILING DATE: 09-May-1995

RESULT 4
US-08-38-265-2
Sequence 2, Application US/08438265

GENERAL INFORMATION:
Patent No. 636984

GENERAL INFORMATION:
APPLICANT: Schwartz, Robert J.
APPLICANT: Demayo, Franco
APPLICANT: O'Malley, Bert W.

TITLE OF INVENTION: Expression Vector Systems and Methods of

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth St.
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/438,265

FILING DATE: 09-May-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/368,776

FILING DATE: <Unknown>

APPLICATION NUMBER: US 07/789,919

FILING DATE: 06-NOV-1991

ATTORNEY/AGENT INFORMATION:

NAME: Knight, Matthew W.

REGISTRATION NUMBER: 36,846

REFERENCE/DOCKET NUMBER: 204/302

TELECOMMUNICATION INFORMATION:

TELEPHONE: 213-489-1600

TELEFAX: 213-955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 27 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLogy: linear

MOLECULE TYPE: cDNA

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-08-438-265-2

Query Match 100.0%; Score 27; DB 3; Length 27;

Best Local Similarity 100.0%; Pred. No. 0.0012; Mismatches 0; Indels 0; Gaps 0;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTGACTCACCCGGTGAACGGGGATT 27

Db 1 GGTGACTCACCCGGTGAACGGGGATT 27

RESULT 5

PCT-US94-05659-2

Sequence 2, Application PC/TUS9405659

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: TNF⁻ RESPONSIVE ELEMENT, TNF⁻-INDUCED DNA-BINDING

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Haniliton, Brook, Smith & Reynolds, P.C.

STREET: Two Militia Drive

CITY: Lexington

STATE: Massachusetts

Country: U.S.A.

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/05659

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Granahan, Patricia

REGISTRATION NUMBER: 32,227

REFERENCE/DOCKET NUMBER: FDC93-01 FF

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-861-6240

TELEFAX: 617-861-9540

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 301 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLogy: linear

MOLECULE TYPE: DNA (genomic)

US-08-438-265-2

Query Match 85.2%; Score 23; DB 5; Length 301;

Query Match

Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTGACTCACCCGGTGAACGGGGATT 23

Db 240 GGTGACTCACCCGGTGAACGGGG 262

RESULT 6

US-10-141-634-1/c

Sequence 1, Application US/10141634

GENERAL INFORMATION:

APPLICANT: Yu, Xuanchuan

APPLICANT: Xie, Qiongshu

APPLICANT: Walk, D. Wade

APPLICANT: Abulin, Alejandro

APPLICANT: Walk, D. Wade

TITLE OF INVENTION: No. 6734010el Human Kinases and Polynucleotides Encoding the Sar

FILE REFERENCE: LEX-0344-001

CURRENT APPLICATION NUMBER: US/10/141 634

CURRENT FILING DATE: 2002-05-08

PRIOR APPLICATION NUMBER: US 60/269,727

PRIOR FILING DATE: 2001-05-09

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSBQ for Windows Version 4.0

SEQ ID NO 1

LENGTH: 1440

TYPE: DNA

ORGANISM: homo sapiens

US-10-141-634-1

Query Match 100.0%; Score 27; DB 3; Length 27;

Best Local Similarity 100.0%; Pred. No. 0.0012; Mismatches 0; Indels 0; Gaps 0;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 ACTCACCGGGTGAACGGGGATT 27

Db 812 ACCCTGGGGTGAACGGGGATT 790

RESULT 7

US-09-489-039A-1953

Sequence 103, Application US/09489039A

PATENT NO. 6810836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PNEUMONIE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 27-09-200401

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 1953

LENGTH: 624

TYPE: DNA

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-1953

Query Match 66.7%; Score 18; DB 4; Length 624;

Best Local Similarity 80.8%; Pred. No. 26; Mismatches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 GTGACTCACCCGGTGAACGGGGATT 27

Db 434 GTGACTCACCCGGTGAACGGGGATT 459

RESULT 8

US-01-489-039A-1930/c

Sequence 1930, Application US/09489039A

PATENT NO. 6610836

GENERAL INFORMATION:
 APPLICANT: Gary Breton et. al
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 2709_2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIORITY APPLICATION NUMBER: US 60/117,747
 PRIORITY FILING DATE: 1999-01-29
 NUMBER OF SEQ ID NOS: 14342
 SEQ ID NO 1930
 LENGTH: 768
 TYPE: DNA
 ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-1930

RESULT 9
 Query Match 66.7%; Score 18; DB 4; Length 768;
 Best Local Similarity 80.8%; Pred. No. 27;
 Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 GTGACTCACCGGGTGAACGGGATT 27
 Db 291 GTGAGTCACCGGATGAACGGGACTT 266

US-09-276-531-16/C
 Sequence 16, Application US/09276531
 Patent No. 6133968
 GENERAL INFORMATION:
 APPLICANT: Bandan, Olga
 APPLICANT: Lal, Preeti
 APPLICANT: Hillman, Jennifer L.
 APPLICANT: Yue, Henry
 APPLICANT: Reddy, Koopa
 APPLICANT: Guedier, Karl J.
 APPLICANT: Baughn, Mariah R.
 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF GENES ENCODING
 NUMBER OF INVENTION: RECEPTORS AND PROTEINS ASSOCIATED WITH CELL PROLIFERATION
 NUMBER OF SEQUENCES: 134
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/276,531
 FILING DATE: Herewith
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 60/079,677
 FILING DATE: March 27, 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Lynn E. Murry, Ph.D.
 REGISTRATION NUMBER: 42,918
 REFERENCE/DOCKET NUMBER: PA-0008 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 855-0555
 TELEFAX: (650) 845-4165
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 4245 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

RESULT 10
 US-09-031E-27/C
 Sequence 27, Application US/09087031E
 Patent No. 647255
 GENERAL INFORMATION:
 APPLICANT: Rubin, Jeffrey S.
 APPLICANT: Finch, Paul
 APPLICANT: Aaronson, Stuart
 APPLICANT: He, Xi
 TITLE OF INVENTION: HUMAN FRP AND FRAGMENTS THEREOF INCLUDING METHODS FOR USING THEM
 FILE REFERENCE: 11613.13US11
 CURRENT APPLICATION NUMBER: US/09/087,031E
 CURRENT FILING DATE: 1998-05-29
 PRIORITY APPLICATION NUMBER: 09/087,031
 PRIORITY FILING DATE: 1998-05-29
 PRIORITY APPLICATION NUMBER: 60/050,417
 PRIORITY FILING DATE: 1997-06-23
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 27
 LENGTH: 4500
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-087-031E-27

Query Match 66.7%; Score 18; DB 4; Length 4500;
 Best Local Similarity 80.8%; Pred. No. 34;
 Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 GTGACTCACCGGGTGAACGGGATT 27
 Db 1359 GTGACCCACGGGTTCCGGGGACT 1334

RESULT 11
 US-09-103-840A-2/C
 Sequence 2, Application US/09103840A
 Patent No. 6294328
 GENERAL INFORMATION:
 APPLICANT: FLEISCHMAN, Robert D.
 APPLICANT: WHITE, Owen R.
 APPLICANT: FRASER, Claire M.
 APPLICANT: VENTER, John C.
 TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
 TITLE OF INVENTION: TUBERCULOSIS
 FILE REFERENCE: 23366-0007.00
 CURRENT APPLICATION NUMBER: US/09/103,840A
 CURRENT FILING DATE: 1998-06-24
 NUMBER OF SEQ ID NOS: 2
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 4403765
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 FEATURE:
 OTHER INFORMATION: CDC 15.1
 OTHER INFORMATION: "n" bases at various positions throughout the sequence
 OTHER INFORMATION: represent a, t, c or g
 US-09-103-840A-2

Query Match Similarity 66.7%; Score 18; DB 3; Length 4403765;
 Best Local Similarity 80.8%; Pred. No. 63; Mismatches 5; Indels 0; Gaps 0;
 Matches 21; Conservative 0; MisMatches 0;

Qy 2 GGTGACTCACCGGTGAAACGGGCATT 27
 Db 2204211 GGTGCGACCCGGTGACCGGCCATT 2204186

RESULT 12

US-09-103-840A-1/c

Sequence 1, Application US/09103840A

Patent No. 6294328

GENERAL INFORMATION:

APPLICANT: Fabischman, Robert D.

APPLICANT: White, Owen R.

APPLICANT: Fraser, Claire M.

APPLICANT: Venter, John C.

TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM

FILE REFERENCE: 2436-2007.00

CURRENT APPLICATION NUMBER: US/09/103, 840A

CURRENT FILING DATE: 1998-06-24

NUMBER OF SEQ ID NOS: 2

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1

LENGTH: 4411529

TYPE: DNA

ORGANISM: Mycobacterium tuberculosis

OTHER INFORMATION: H37Rv

US-09-103-840A-1

TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 183:
 ;
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2138 base pairs
 ;
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ;
 ; TOPOLOGY: linear

RESULT 14

US-09-072-596-178

Sequence 178, Application US/09072596

; PATENT NO. 6458366

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Devin C.

; APPLICANT: Campos-Neto, Antonia

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DO/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICANT NUMBER: US/09/072, 596

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.417C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-6900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 178:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2138 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

RESULT 13

US-09-056-556-183

Sequence 183, Application US/09056556

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Devin C.

; APPLICANT: Campos-Neto, Antonia

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DO/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICANT NUMBER: US/09/072, 596

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.417C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-6900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 178:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2138 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

RESULT 14

US-09-056-556-183

Sequence 183, Application US/09056556

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Devin C.

; APPLICANT: Campos-Neto, Antonia

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DO/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICANT NUMBER: US/09/072, 596

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.417C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-6900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 178:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2138 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

RESULT 15

US-09-072-596-183

Sequence 183, Application US/09056556

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Devin C.

; APPLICANT: Campos-Neto, Antonia

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DO/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICANT NUMBER: US/09/072, 596

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.417C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-6900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 178:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2138 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

RESULT 16

US-09-072-596-183

Sequence 183, Application US/09056556

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Devin C.

; APPLICANT: Campos-Neto, Antonia

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DO/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICANT NUMBER: US/09/072, 596

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.417C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-6900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 178:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2138 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

RESULT 15
US-09-072-967-183
Sequence 183, Application US/09072967
Patent No. 6598877

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skelley, Yasir A. W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Henrichson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEDD and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US09/072,967

FILING DATE: 05-MAY-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 183:

SEQUENCE CHARACTERISTICS:

LENGTH: 2136 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-072-967-183

Query Match 65.2%; Score 17.6; DB 4; Length 2139;
Best Local Similarity 83.3%; Fred. No. 47;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GGTGACTGACCGGTGACGGGGC 24
DB 1798 GGTGCGTACGGGTCAAGGGC 1821

Search completed: November 29, 2004, 13:46:57
Job time : 103 secs

NAME: Knight, Matthew W.
 REGISTRATION NUMBER: 36,846
 REFERENCE/DOCKET NUMBER: 204/302
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 213-489-1600
 TELEFAX: 213-955-0440
 TELE: 67-3510

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
 LENGTH: 27 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULAR TYPE: cDNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-10-073-064-2

Query Match₁ 100 %; Score 27; DB 15; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.006; Mismatches 0; Indels 0; Gaps 0;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTTACCCGGTGAACGGGCATT 27
 Db 1 GGTGACTTACCCGGTGAACGGGCATT 27

RESULT 2
 US-10-683-516-3
 Sequence 3, Application US/10683516
 Publication No. US20040126364A1
 GENERAL INFORMATION:
 APPLICANT: Keeping, High S
 APPLICANT: Reichner, Jonathan S
 TITLE OF INVENTION: Treatment for Bone Disorders
 FILE REFERENCE: 21486-028CON
 CURRENT APPLICATION NUMBER: US/10/683,516
 PRIORITY APPLICATION NUMBER: 09/507,239
 PRIORITY FILING DATE: 2000-02-18
 NUMBER OF SEQ ID NOS: 7
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3 LENGTH: 597
 TYPE: DNA
 ORGANISM: Homo sapiens

Query Match₁ 85.2%; Score 23; DB 14; Length 2657;
 Best Local Similarity 100.0%; Pred. No. 0.44; Mismatches 0; Indels 0; Gaps 0;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTTACCCGGTGAACGGGC 23
 Db 343 GGTGACTTACCCGGTGAACGGGC 365

RESULT 4
 US-10-029-386-19439/C
 Sequence 19439, Application US/10029386
 Publication No. US20030194704A1
 GENERAL INFORMATION:
 APPLICANT: Penn, Sharron G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C
 FILE REFERENCE: ABOMIC-X-2
 CURRENT APPLICATION NUMBER: US/10/029,386
 CURRENT FILING DATE: 2001-12-20
 NUMBER OF SEQ ID NOS: 34288
 SOFTWARE: Amomax Sequence Listing Engine vers. 1.1
 SEQ ID NO 19439
 LENGTH: 132
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: MAP TO AC000392.1
 OTHER INFORMATION: SIGNAL = 0.61
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.59
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.51
 OTHER INFORMATION: SWISSPROT HIT: Q9RSK7, EVALUE 7.90e-02
 OTHER INFORMATION: NT HIT: AL603647.1, EVALUE 4.40e-01
 OTHER INFORMATION: EST_HUMAN HIT: AW069362.1, EVALUE 7.00e-38
 US-10-171-311-93
 Sequence 193, Application US/10171311
 Publication No. US20030087270A1
 GENERAL INFORMATION:
 APPLICANT: Schlegel, Robert
 APPLICANT: Chen, Yan
 APPLICANT: Zhao, Xumei
 APPLICANT: Monahan, John
 APPLICANT: Kamatkar, Shubhangi
 APPLICANT: Glatt, Karen
 APPLICANT: Gammavaram, Manjula
 APPLICANT: Hoersh, Sebastian
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
 TITLE OF INVENTION: OF CERVICAL CANCER
 FILE REFERENCE: MRI-035

RESULT 5
 US-10-027-632-26905
 Sequence 26905, Application US/10027632
 Publication No. US20020198371A1
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

FILE REFERENCE: 108827.129

CURRENT FILING DATE: US/10/027, 632

PRIOR APPLICATION NUMBER: US 60/218, 006

PRIOR FILING DATE: 2000-07-112

PRIOR APPLICATION NUMBER: US 60/198, 676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193, 483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185, 218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167, 363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156, 358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146, 002

PRIOR FILING DATE: 1999-09-09

NUMBER OF SEQ ID NOS: 32520

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 26905

LENGTH: 391

TYPE: DNA

ORGANISM: Human

US-10-027-632-26905

Query Match 67.4%; Score 18.2; DB 13; Length 391;

Best Local Similarity 87.0%; Pred. No. 81; Mismatches 3; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

GENERAL INFORMATION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027, 632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218, 006

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198, 676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193, 483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185, 218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167, 363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156, 358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146, 002

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 26905

LENGTH: 391

TYPE: DNA

ORGANISM: Human

US-10-027-632-26905

Query Match 67.4%; Score 18.2; DB 13; Length 391;

Best Local Similarity 87.0%; Pred. No. 81; Mismatches 3; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

GENERAL INFORMATION:

APPLICANT: Rank, David R.

APPLICANT: Hanel, David K.

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEAR ACID PROBES USEFUL FOR EXPRESSION ANALYSIS TWO

FILE REFERENCE: AECOMCA-X-2

CURRENT APPLICATION NUMBER: US/10/029, 386

CURRENT FILING DATE: 2001-12-20

NUMBER OF SEQ ID NOS: 34288

SOFTWARE: Amonax Sequence Listing Engine vers. 1.1

SEQ ID NO: 5683

LENGTH: 545

TYPE: DNA

ORGANISM: Homo sapiens

US-10-029-386-5683

Query Match 67.4%; Score 18.2; DB 15; Length 545;

Best Local Similarity 87.0%; Pred. No. 81; Mismatches 3; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

GENERAL INFORMATION:

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

APPLICANT: Chun, Miyoung

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

TITLE OF INVENTION: Nucleic Acid Sequences Encoding Adenylate Kinase, Phospholipid Scramblase-Like, Fragmentation Factor-Like, Phosphatidylserine Synthase-Like, and ATPase-Like Molecules and Uses Therefor

FILE REFERENCE: 35900/247838

CURRENT APPLICATION NUMBER: US/10/165, 800

CURRENT FILING DATE: 2002-06-07

PRIOR APPLICATION NUMBER: 09/1790, 179

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 609

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 838

PRIOR FILING DATE: 2001-02-22

PRIOR APPLICATION NUMBER: 60/185, 946

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 180

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 947

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1795, 038

PRIOR FILING DATE: 2001-02-26

PRIOR APPLICATION NUMBER: 60/186, 234

RESULT 7

US-10-029-386-5683/C

Sequence 5683, Application US/10029386

Publication No. US20030194704A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharron G.

APPLICANT: Rank, David R.

APPLICANT: Hanel, David K.

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEAR ACID PROBES USEFUL FOR EXPRESSION ANALYSIS TWO

FILE REFERENCE: AECOMCA-X-2

CURRENT APPLICATION NUMBER: US/10/029, 386

CURRENT FILING DATE: 2001-12-20

NUMBER OF SEQ ID NOS: 34288

SOFTWARE: Amonax Sequence Listing Engine vers. 1.1

SEQ ID NO: 5683

LENGTH: 545

TYPE: DNA

ORGANISM: Homo sapiens

US-10-029-386-5683

Query Match 67.4%; Score 18.2; DB 15; Length 545;

Best Local Similarity 87.0%; Pred. No. 81; Mismatches 3; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

GENERAL INFORMATION:

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

APPLICANT: Chun, Miyoung

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

TITLE OF INVENTION: Nucleic Acid Sequences Encoding Adenylate Kinase, Phospholipid Scramblase-Like, Fragmentation Factor-Like, Phosphatidylserine Synthase-Like, and ATPase-Like Molecules and Uses Therefor

FILE REFERENCE: 35900/247838

CURRENT APPLICATION NUMBER: US/10/165, 800

CURRENT FILING DATE: 2002-06-07

PRIOR APPLICATION NUMBER: 09/1790, 179

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 609

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 838

PRIOR FILING DATE: 2001-02-22

PRIOR APPLICATION NUMBER: 60/185, 946

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 180

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 947

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1795, 038

PRIOR FILING DATE: 2001-02-26

PRIOR APPLICATION NUMBER: 60/186, 234

RESULT 8

US-10-029-386-5683/c

Sequence 23, Application US/0165800

Publication No. US20030092116A1

GENERAL INFORMATION:

APPLICANT: Chun, Miyoung

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

TITLE OF INVENTION: Adenylate Kinase, Phospholipid Scramblase-Like, Fragmentation Factor-Like, Phosphatidylserine Synthase-Like, and ATPase-Like Molecules and Uses Therefor

FILE REFERENCE: 35900/247838

CURRENT APPLICATION NUMBER: US/10/165, 800

CURRENT FILING DATE: 2002-06-07

PRIOR APPLICATION NUMBER: 09/1790, 179

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 609

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 838

PRIOR FILING DATE: 2001-02-22

PRIOR APPLICATION NUMBER: 60/185, 946

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 180

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 947

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1795, 038

PRIOR FILING DATE: 2001-02-26

PRIOR APPLICATION NUMBER: 60/186, 234

RESULT 9

US-10-029-386-5683/c

Sequence 23, Application US/0165800

Publication No. US20030092116A1

GENERAL INFORMATION:

APPLICANT: Chun, Miyoung

APPLICANT: Glucksmann, Maria Alexandra

APPLICANT: Keppler-Liebermann, Rosana

APPLICANT: Meyer, Rachel E.

TITLE OF INVENTION: Adenylate Kinase, Phospholipid Scramblase-Like, Fragmentation Factor-Like, Phosphatidylserine Synthase-Like, and ATPase-Like Molecules and Uses Therefor

FILE REFERENCE: 35900/247838

CURRENT APPLICATION NUMBER: US/10/165, 800

CURRENT FILING DATE: 2002-06-07

PRIOR APPLICATION NUMBER: 09/1790, 179

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 609

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 838

PRIOR FILING DATE: 2001-02-22

PRIOR APPLICATION NUMBER: 60/185, 946

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1790, 180

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/185, 947

PRIOR FILING DATE: 2000-02-29

PRIOR APPLICATION NUMBER: 09/1795, 038

PRIOR FILING DATE: 2001-02-26

PRIOR APPLICATION NUMBER: 60/186, 234

PRIOR FILING DATE: 2000-02-29
 PRIORITY APPLICATION NUMBER: 07/781,677
 PRIORITY FILING DATE: 2001-02-21
 PRIORITY APPLICATION NUMBER: 60/181,705
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 23
 LENGTH: 774
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-165-800-23

Query Match 67.4%; Score 18.2; DB 14; Length 774;
 Best Local Similarity 87.0%; Pred. No. 81; Mismatches 0;
 Matches 20; Conservative 0; Gaps 0;
 QY 5 ACTCACGGGTGACCGGGCATT 27
 DB 596 ACCCTCGGGTGACGGGCATT 574

RESULT 9
 US-10-311-034-51/c
 Sequence 51, Application US/10311034
 Publication No. US20040023242A1
 GENERAL INFORMATION
 APPLICANT: INCYTE GENOMICS, INC.
 APPLICANT: YUE, Henry
 APPLICANT: LAL, Preeti
 APPLICANT: BANDMAN, Olga
 APPLICANT: BOROSKY, Mark L.
 APPLICANT: AU-YOUNG, Janice
 APPLICANT: LU, Yan
 APPLICANT: GANDHI, Amena R.
 APPLICANT: TRIBOLEY, Catherine M.
 APPLICANT: CHAWLA, Narinder K.
 APPLICANT: YAO, Monique G.
 APPLICANT: GREENHALD, Sara R.
 APPLICANT: RAMKUMAR, Jayalaxmi
 APPLICANT: GREEN, Jennifer A.
 APPLICANT: KEARNEY, Liam
 APPLICANT: BURFORD, Neil
 APPLICANT: NGUYEN, Daniel B.
 APPLICANT: TANG, Y. Tom
 APPLICANT: BAUGH, Mariah R.
 APPLICANT: HE, Ann
 APPLICANT: THORNTON, Michael
 APPLICANT: HAFALIA, April
 APPLICANT: ARVIZU, Chandra S.
 APPLICANT: GURUJAJAN, Rajagopal
 APPLICANT: LO, Terrence P.
 APPLICANT: KHAN, Farrah A.
 APPLICANT: RECTION, Shirley A.
 APPLICANT: AZIMAI, Valda
 APPLICANT: POLICK, Jennifer L.
 APPLICANT: DING, Li
 APPLICANT: GRETER, Megan
 APPLICANT: ELLIOTT, Vicki S.
 APPLICANT: THANGAVELU, Kavitha
 APPLICANT: BATRA, Sajeet
 APPLICANT: ISON, Craig H.
 TITLE OF INVENTION: HUMAN KINASES
 FILE REFERENCE: PI-0125 PCT
 CURRENT APPLICATION NUMBER: US/10/311,034
 CURRENT FILING DATE: 2002-12-10
 PRIORITY APPLICATION NUMBER: 60/212,073; 60/213,457; 60/215,651; 60/216,605; 60/218,372;
 50/228,056
 PRIORITY FILING DATE: 2000-06-15; 2000-06-23; 2000-06-30; 2000-07-07; 2000-07-13; 2000-07-25
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PERL program

Query Match 67.4%; Score 18.2; DB 16; Length 995;
 Best Local Similarity 87.0%; Pred. No. 81; Mismatches 0;
 Matches 20; Conservative 0; Gaps 0;
 QY 5 ACTCACGGGTGACGGGCATT 27
 DB 242 ACCCTCGGGTGACGGGCATT 220

RESULT 10
 US-09-764-868-257/c
 Sequence 257, Application US/09764868
 Patent No. US200168711A1
 GENERAL INFORMATION:
 APPLICANT: Rosen et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 FILE REFERENCE: P7323
 CURRENT APPLICATION NUMBER: US/09/764,868
 CURRENT FILING DATE: 2001-01-17
 Prior application data removed - refer to PALM or file wrapper
 NUMBER OF SEQ ID NOS: 1510
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 257
 LENGTH: 1223
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: SITE
 LOCATION: (78)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (307)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (1191)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (1191)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (1193)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (1203)
 OTHER INFORMATION: n equals a,t,g, or c
 NAME/KEY: SITE
 LOCATION: (1218)
 OTHER INFORMATION: n equals a,t,g, or c
 US-09-764-868-257

Query Match 67.4%; Score 18.2; DB 9; Length 1223;
 Best Local Similarity 87.0%; Pred. No. 81; Mismatches 0;
 Matches 20; Conservative 0; Gaps 0;
 QY 5 ACTCACGGGTGACGGGCATT 27
 DB 853 ACCCTCGGGTGACGGGCATT 831

RESULT 11
 US-10-141-634-1/c

```

; Sequence 1, Application US/10141634
; Publication No. US200300083541
; GENERAL INFORMATION:
; APPLICANT: Yu, Xianchuan
; APPLICANT: Xie, Qiongshu
; APPLICANT: Abuin, Alejandro
; APPLICANT: Walke, D. Wade
; TITLE OF INVENTION: FILE REFERENCE: LEX-034-USA
; CURRENT APPLICATION NUMBER: US/10/141,634
; CURRENT FILING DATE: 2002-05-08
; PRIOR APPLICATION NUMBER: US 60/289,727
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1440
; TYPE: DNA
; ORGANISM: homo sapiens
; US-10-141-634-1

RESULT 12
Query Match 67.4%; Score 18.2; DB 14; Length 1440;
Best Local Similarity 87.0%; Pred. No. 80; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      5 ACTCACCGGTGACGGGATT 27
Db      812 ACCCTCGGGTGAACGGGCATT 790

US-10-165-800-21/c
; Sequence 21, Application US/10165800
; Publication No. US20030092116A1
; GENERAL INFORMATION:
; APPLICANT: Chun, Miyoung
; APPLICANT: Gluckmann, Maria Alexandra
; APPLICANT: Kappeler-Libermann, Rosana
; APPLICANT: Meyers, Rachel E.
; TITLE OF INVENTION: Nucleic Acid Sequences Encoding Adenylate Kinase, Phospholipid Scramblase-Like, DNA Fragmentation Factor-Like, Phosphatidylserine Synthase-Like, Title of Invention: and Attafase-Like Molecules and Uses Therefor
; FILE REFERENCE: 358001247838
; CURRENT APPLICATION NUMBER: US/10/165,800
; CURRENT FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 09/790,179
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,609
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,838
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/185,946
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,180
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,947
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/795,038
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; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/181,705
; PRIOR FILING DATE: 2000-02-10
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 1452
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; ORGANISM: Homo sapiens
; FEATURE: 

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Db      814 ACCCTCGGGTGAACGGGCATT 792

US-10-054-749-1381/c
; Sequence 1381, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHI, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RIOTARO
; APPLICANT: TAMECHIKI, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUO, YASHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1381
; LENGTH: 1579
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: 

RESULT 14
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Best Local Similarity 87.0%; Pred. No. 80; Mismatches 3; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      841 ACCCTCGGGTGAACGGGCATT 819

US-0-0478-146-17/c
; Sequence 17, Application US/0478146
; Publication No. US20040203097A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION; YUE, HARRY;
; APPLICANT: LU, Duying Anna M.; AZIMZAI, Yalda;
; APPLICANT: DING, Li; LEE, Ernestine A. ;
; APPLICANT: HAFALIA, April J.A.; BECHA, Shanya D. ;
; APPLICANT: TANG, Y. Tom; LAI, Preeti G. ;
; APPLICANT: GRIFFIN, Jennifer A.; GURUBAJAN, Rajagopal;
; APPLICANT: RAMKUMAR, Jayalakshmi; ELLIOTT, Vicki S.;


```

APPLICANT: ARVIZU, Chandra S.; LUO, Wen;
 APPLICANT: SWARNAKAR, Anita; DRUGAN, Brendan M.;
 APPLICANT: TRAN, Uyen K.; CHAWLA, Narinder K.;
 APPLICANT: GANDHI, Ameena R.; YAO, Monique G.;
 APPLICANT: KEAN, Parrish A.; BAUGH, Mariah R.;
 APPLICANT: BOROWSKI, Mark L.; ZEBARSKI, Marian; YEGANEH;
 APPLICANT: RICHARDSON, Thomas W.; MARQUIS, Joseph P.;
 APPLICANT: CHIEN, David; JIN, Pei
 TITLE OF INVENTION: KINASES AND PHOSPHATASES
 CURRENT FILING DATE: 2003-11-18
 CURRENT FILING DATE: 2003-11-18
 PRIOR APPLICATION NUMBER: PCT/US2002/16634
 PRIOR APPLICATION NUMBER: US 60/305,23
 PRIOR APPLICATION NUMBER: US 60/293,665
 PRIOR APPLICATION NUMBER: US 60/298,712
 PRIOR APPLICATION NUMBER: US 60/303,418
 PRIOR FILING DATE: 2002-05-23
 PRIOR FILING DATE: 2001-05-24
 PRIOR FILING DATE: 2001-06-15
 PRIOR FILING DATE: 2001-07-06
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 PRIOR FILING DATE: 2001-07-27
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 PRIOR FILING DATE: 2001-12-19
 PRIOR FILING DATE: 2002-02-15
 PRIOR FILING DATE: 2002-04-30
 NUMBER OF SEQ ID NOS: 28
 SOFTWARE: PERL Program
 SEQ ID NO: 17
 LENGTH: 1581
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 OTHER INFORMATION: Incyte ID No: 72063274CBL
 S-10-478-146-17
 S-10-104-047-1657/C
 Sequence 1657, Application US/10104047
 Publication No. US20030236392A1
 GENERAL INFORMATION:
 APPLICANT: HELIX RESEARCH INSTITUTE
 TITLE OF INVENTION: No. US20030236392A1 full length
 FILE REFERENCE: H1-A0105
 CURRENT APPLICATION NUMBER: US/10/104,047
 CURRENT FILING DATE: 2002-03-25
 PRIOR APPLICATION NUMBER:
 PRIOR FILING DATE:
 NUMBER OF SEQ ID NOS: 4096
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 1657
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 TYPE: DNA
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 S-10-104-047-1657

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Job time: 4974 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 13:45:02 ; Search time 3814 Seconds
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Maximum Match 100%

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5	27	100.0	27	16	US-09-181-119A-2	Sequence 2, Appli
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ALIGNMENTS

RESULT 1
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; GENERAL INFORMATION:

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 FILING DATE: March 9, 1994
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/789,919
 FILING DATE: November 6, 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 32,327
 REFERENCE/DOCKET NUMBER: 204/302
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
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 TOPLOGY: linear
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 GENERAL INFORMATION:
 APPLICANT: Schwartz, Robert J.
 APPLICANT: Demayo, Franco
 APPLICANT: O'Malley, Bert W.
 TITLE OF INVENTION: EXPRESSION VECTOR SYSTEMS
 TITLE OF INVENTION: AND METHOD OF USE
 NUMBER OF SEQUENCES: 6
 NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 STREET: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: storage
 COMPUTER: IBM compatible
 OPERATING SYSTEM: IBM MS-DOS (Version 6.22)
 SOFTWARE: WordPerfect (Version 5.1)
 CURRENT APPLICATION DATA:
 CURRENT APPLICATION DATA: Patient in Release #1.0, Version #1.25
 APPLICATION NUMBER: US/08/451,882
 FILING DATE: 26-MAY-1995
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/209,846
 FILING DATE: 09-MAR-1994
 APPLICATION NUMBER: US 07/789,919
 FILING DATE: 06-NOV-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Knight, Matthew W.
 REGISTRATION NUMBER: 36,846
 REFERENCE/DOCKET NUMBER: 204/302
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 213-489-1600
 TELEFAX: 213-955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 27 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-451-882-2
 Query Match 100.0%; Score 27; DB 9; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.12; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTTGACTTACCCGGTGAACGGGGCAT 27
 Db 1 GGTTGACTTACCCGGTGAACGGGGCAT 27

RESULT 5

US-09-181-419A-2

Sequence 2, Application US/09181419A

GENERAL INFORMATION:

APPLICANT: Valentis, Inc.

APPLICANT: Schwartz, Robert J.

APPLICANT: O'Malley, Franco J.

TITLE OF INVENTION: EXPRESSION VECTOR SYSTEMS AND METHOD OF USE

FILE REFERENCE: SE Meyer: Valentis 236/277 US

CURRENT APPLICATION NUMBER: US/09/181.419A

CURRENT FILING DATE: 1998-10-28

PRIOR APPLICATION NUMBER: 08/209,846

PRIOR FILING DATE: 1994-03-09

PRIOR APPLICATION NUMBER: 07/789,919

PRIOR FILING DATE: 1991-11-06

PRIOR APPLICATION NUMBER: 08/472,809

PRIOR FILING DATE: 1995-06-07

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO: 2

LENGTH: 27

TYPE: DNA

ORGANISM: Gallus gallus

US-09-181-419A-2

Query Match Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTTACCCGGGTGACGGGGCATT 27

Db 1 GGTGACTTACCCGGGTGACGGGGCATT 27

RESULT 6

US-10-073-064-2

Sequence 2, Application US/10073064

GENERAL INFORMATION:

APPLICANT: Schwartz, Robert J.

APPLICANT: O'Malley, Franco

TITLE OF INVENTION: Expression Vector Systems and Methods of

NUMBER OF SEQUENCES: 6

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 611 West Sixth St.

CITY: Los Angeles

STATE: CA

COUNTRY: USA

ZIP: 90017

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/073,064

FILING DATE: 12-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/438,265

FILING DATE: 09-May-1995

APPLICATION NUMBER: 08/368,776

FILING DATE: <Unknown>

REFERENCE/DOCKET NUMBER: 204/302
TELECOMMUNICATION INFORMATION:
TELEPHONE: 213-489-1600
TELEFAX: 213-489-0440INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-10-073-064-2

Query Match Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTTACCCGGGTGACGGGGCATT 27

Db 1 GGTGACTTACCCGGGTGACGGGGCATT 27

RESULT 7

US-09-400-967-6

Query Match Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTTACCCGGGTGACGGGG 23

Db 3 GGTGACTTACCCGGGTGACGGGG 25

RESULT 8

US-09-400-967-6/c

Query Match Best Local Similarity 85.2%; Pred. No. 8.2; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTTACCCGGGTGACGGGG 23

Db 3 GGTGACTTACCCGGGTGACGGGG 25

RESULT 9

US-09-400-967-6

Query Match Best Local Similarity 85.2%; Pred. No. 8.2; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGACTTACCCGGGTGACGGGG 23

Db 3 GGTGACTTACCCGGGTGACGGGG 25

ATTORNEY/AGENT INFORMATION:
NAME: Knight, Matthew W.

REGISTRATION NUMBER: 36,846

Query Match Best Local Similarity 85.0%; Pred. No. 8.2; Length 57;

PRIOR FILING DATE: 2000-05-17
 SOFTWARE: HyPatent.pl Version 3.1
 SEQ ID NO 59789
 LENGTH: 422
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(422)
 OTHER INFORMATION: n = A, T, C or G
 US-09-933-524A-59789

Query Match 85.2%; Score 23; DB 39; length 422;
 Best Local Similarity 100.0%; Pred. No. 8.9;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTTACCCGGTGAACGGGG 23
 Db 330 GGTGACTTACCCGGTGAACGGGG 352

RESULT 13
 PCT-US02-22216-2
 Sequence 2, Application PC/TUS0222216
 GENERAL INFORMATION:
 APPLICANT: The University of Virginia Patent Foundation
 APPLICANT: Chung, Leland
 APPLICANT: Yeung, Fan
 TITLE OF INVENTION: Super Osteocalcin Promoter for the Treatment of Calcified Tumors
 TITLE OF INVENTION: Tissues
 FILE REFERENCE: 00704-02
 CURRENT APPLICATION NUMBER: PCT/US02/22216
 CURRENT FILING DATE: 2002-07-12
 PRIOR APPLICATION NUMBER: US 60/305,360
 PRIOR FILING DATE: 2001-07-13
 NUMBER OF SEQ ID NOS: 13
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 2
 LENGTH: 565
 TYPE: DNA
 ORGANISM: Homo sapiens
 PCT-US02-22216-2

Query Match 85.2%; Score 23; DB 2; length 565;
 Best Local Similarity 100.0%; Pred. No. 9;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTTACCCGGTGAACGGGG 23
 Db 74 GGTGACTTACCCGGTGAACGGGG 96

RESULT 14
 PCT-US02-22216A-2
 Sequence 2, Application PC/TUS0222216A
 GENERAL INFORMATION:
 APPLICANT: The University of Virginia Patent Foundation
 APPLICANT: Chung, Leland W. K.
 APPLICANT: Yeung, Fan
 TITLE OF INVENTION: Super Osteocalcin Promoter for the Treatment of Calcified Tumors
 FILE REFERENCE: 00704-02
 CURRENT APPLICATION NUMBER: PCT/US02/22216A
 CURRENT FILING DATE: 2002-07-12
 PRIOR APPLICATION NUMBER: US 60/305,360
 PRIOR FILING DATE: 2001-07-13
 NUMBER OF SEQ ID NOS: 13
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 2
 LENGTH: 565
 TYPE: DNA
 ORGANISM: Homo sapiens

PCT-US02-22216A-2

Query Match 85.2%; Score 23; DB 22; length 597;
 Best Local Similarity 100.0%; Pred. No. 9;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGTGACTTACCCGGTGAACGGGG 23
 Db 65 GGTGACTTACCCGGTGAACGGGG 87

Search completed: November 29, 2004, 16:15:10
 Job time : 3816 secs

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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 13:45:01 ; Search time 2981 Seconds
(without alignments) 330.048 Million cell updates/sec

Title: US-10-073-064-2

Perfect score: 27

Sequence: 1 GGTTGATTCACCGGGT3ACGGGGCATT 27

Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0

Searched: 3282875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : EST:*

1: gb_est1:*

2: gb_est2:*

3: gb_hcc:*

4: gb_hcc:*

5: gb_est3:*

6: gb_est4:*

7: gb_est5:*

8: gb_gss1:*

9: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	23	85.2	436	R34738
2	19.6	72.6	495	R34738 Ygg1d05_r1
3	19.6	72.6	539	Al904250
4	19.6	72.6	539	Al927557
5	19.6	72.6	776	CR131630
6	19.6	72.6	1150	BF024229
7	19.6	72.6	313	CD587090
8	19.6	70.4	352	CD587012
9	19.6	70.4	529	CD587012
10	19.6	70.4	529	Al765212
11	19.6	70.4	699	Al765212
12	19.6	70.4	699	Al765212
13	18.6	68.9	725	Al765212
14	18.6	68.9	842	Al765212
15	18.6	68.9	771	Al765212
16	18.6	68.9	790	Al765212
17	18.6	68.9	855	Al765212
18	18.6	68.9	866	Al765212
19	18.6	68.9	976	Al765212
20	18.6	68.9	1079	Al765212
21	18.6	68.9	1677	Al765212
22	18.6	67.4	406	Al765212
23	18.2	67.4	450	Al765212
24	18.2	67.4	463	Al765212
25	18.2	67.4	540	Al765212

RESULT 1

R34738

LOCUS R34738

DEFINITION 436 bp mRNA linear EST 02-MAY-1995

IMAGE:375225 , mRNA sequence.

ACCESSION R34738

VERSION R34738.1

KEYWORDS GI:91639

SOURCE EST.

ORGANISM Homo sapiens (human)

REFERENCE Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rikkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.

TITLE The WashU-Merck EST Project

JOURNAL Unpublished (1995)

COMMENT Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@wustl.edu

Insert Size: 2249

High Quality sequence stops: 329 Source: IMAGE Consortium, LNU

This clone is available royalty-free through LNU; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

Insert Length: 2249 Std Error: 0.00

Seq primer: MIRPI

High quality sequence stop: 329.

Location/Qualifiers

FEATURES

1. .436

Source

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="GDB:410063"

/db_xref="Taxon:9606"

/clone="IMAGE:375225"

/sex="Female"

/dev_stage="73 days post natal"

/lab_host="DR10B (ampicillin resistant)"

/clone lib="Soares"

/clone lib="infant brain Vector: Lafmid BA; Site 1: Not

/note="Organ: whole brain; Vector: Lafmid BA; Site 1: Not

I; Site 2: Hind III; 1st strand cDNA was primed with a Not

I - oligo(dT) primer [5'

BJ689916

BJ689916

CE248534 tigr-gss-

CK53339 rswgb00

CC711406 OGWEI8TH

All8414 Tetradecan

BES46517 60107509

BCC3402 Homo sapi

CE046711 tigr-gss-

AA249500 J8113 sec

All374743 MCB0805

All376677 MTB2D06

CC65393 OGAM6TV

AV659678 AV59678

All376678 MTB2D06

All38075 MTB4EB02

All38076 MBC4EB02

BL271584 NF100GJ2F

All37635 MTB2H04

All37643 MTB2H04

BX472073 DKFZP886B

All37632 MTB3A04

BQ147306 NF03904F

ACTCGAAGATTGGGGCAGAATTTTTTTTTT 3'; double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the Lafmid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo.

ORIGIN

Query Match 85.2%; Score 23; DB 7; Length 436; Best Local Similarity 100.0%; Pred. No. 8.2; Mismatches 0; Indels 0; Gaps 0; Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY 1 GGTGACTTACCGGGTACCGGG 23 Db 304 GGTGACCTACCGGGTACCGGG 326

RESULT 2

AL904550/c LOCUS AL904250 PUR-21+22 Danio rerio cDNA clone 013-E07-1, mRNA sequence. DEFINITION PUR-21+22 Danio rerio cDNA clone 013-E07-1, mRNA sequence. ACCESSION AL904250 VERSION AL904250.1 GI:23166809 KEYWORDS EST; SOURCE Danio rerio (zebrafish) ORGANISM Danio rerio

Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.

REFERENCE

Lo, J., Lee, S., Xu, M., Liu, F., Ruan, H., Sun, A., He, Y., Ma, W., Wang, W., Wen, Z., and Peng, J.

Lo, J., Lee, S., Xu, M., Liu, F., Ruan, H., Sun, A., He, Y., Ma, W., Wang, W., Wen, Z., and Peng, J., 2003, 15000 unique zebrafish EST clusters and their future use in microarray for profiling gene expression patterns during embryogenesis, *Genome Res.* 13 (3), 455-466 (2003)

TITLE

Danio rerio

Actinopterygii; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Cypriniformes; Cyprinidae; Danio.

COMMENT

Journal: *Genome Res.* 13 (3), 455-466 (2003) MEDLINE ID: 12618376 MEDLINE PUBLISHED: 22-05-2003 MEDLINE RELEASE: 22-05-2003 MEDLINE SOURCE: 12618376

Author: Lo, J., Lee, S., Xu, M., Liu, F., Ruan, H., Sun, A., He, Y., Ma, W., Wang, W., Wen, Z., and Peng, J.

Address: Institute of Molecular and Cell Biology 30 Medical Drive, Singapore, 117609, Singapore

Email: pengj@imcb.a-star.edu.sg

Phone: 65-436-3000

Fax: 65-436-3001

Contact: Peng J

Lab of Functional Genomics

Open Biosystems, 6705 Odyssey Drive, Huntsville, AL 35806.

Open Biosystems, 6705 Odyssey Drive, Huntsville, AL 35806.

Location/Qualifiers

1. 539

/organism="Danio rerio"

/mol_type="mRNA"

/strain="local wildtype"

/db_xref="taxon:7955"

/clone="013-E07-1"

/tissue_type="whole embryo or fish"

/dev_stage="mixed stages"

/clone_lib="PUR-21+22"

ORIGIN

Query Match 72.6%; Score 19.6; DB 1; Length 539; Best Local Similarity 84.6%; Pred. No. 3e+02; 4; Mismatches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0; Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0; QY 1 GGTGACTTACCGGGTACCGGG 26 Db 392 GGTGACCTACCGGGTACCGGG 367

RESULT 4

CR131630/c LOCUS CR131630 DEFINITION Forward strand read from insert in 3'HPRT insertion targeting and chromosome engineering clone MHPR259c023, genomic survey sequence. ACCESSION CR131630 VERSION CR131630.1 GI:49979083 KEYWORDS GSS; genome survey sequence; MIGER. SOURCE MIGER. ORGANISM Mus musculus

Mus musculus (house mouse)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

Adams, D.J., Biggs, P.J., Cox, A.V., Davies, R.M., van der Weyden, L., Jonkers, J., Smith, J., Plumb, R.W., Taylor, R.G., Nishijima, I., Yu, Y., Rogers, J. and Bradley, A.

TITLE

Direct Submission Submitted (20-FEB-2004) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. http://www.sanger.ac.uk/MIGER

FEATURES

Location/Qualifiers

1. 776

/organism="Mus musculus"

/mol_type="genomic DNA"

/db_xref="taxon:00090"

/clone="MHPR259c023"

/clone_lib="MHPR"

Query Match 72.6%; Score 19.6; DB 9; Length 776;

RESULT 3 AL921557/c LOCUS AL927557 DEFINITION PUR-21+22 Danio rerio cDNA clone 191-E01-1, mRNA sequence. ACCESSION AL927557 VERSION AL927557.1 GI:23198469

ORIGIN

Query Match 72.6%; Score 19.6; DB 9; Length 776;

organism="Danio rerio"	ORIGIN	Query Match 70.4%; Score 19; DB 1; Length 529; Best Local Similarity 81.5%; Pred. No. 5.7e+02; Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/mol_type="mRNA"		
/db_xref="Taxon:7935"		
/clone="RK039A11"		
/dev_stage="mature"		
/clone_lib="Zebrafish Kidney Marrow cDNA library"		
/note="Organ: kidney; Vector: PBS-CMV; Site 1: XbaI; Site 2: EcoRI; Total RNA was extracted from the kidney tissues of mature zebrafish. The poly (A)+ RNA fraction was separated from total RNA by oligo (A)T cellulose chromatography. Library was initially constructed in the lambda ZAP Express vector (Stratagene) and in vivo excised into PBS-CMV vector."		
RESULT 8		
QY	1 GGTGACTACCGGGTGAACGGGATT 27	BB474984
Db	197 GTTGACGCCGAGACGGGATT 223	BB474984
FEATURES		
source		
ORGANISM		
Homo sapiens (human)		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. (bases 1 to 529)		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
Eukaryota; Vilioplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Brassica.		
Unpublished (2001)		
Contact: Chris Town		
Email: cdtown@tigr.org		
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.		
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index		
Unpublished (1997)		
Contact: Robert Strausberg, Ph.D.		
Email: cgraps@email.nih.gov		
Tissue Procurement: Greg Lennon, Ph.D.		
DNA Library Preparation: M. Bento Soares, Ph.D.		
DNA Sequencing by: Washington University Genome Sequencing Center		
Clone distribution: NCI-CGAP clone distribution information can be found through the T.M.A.G.E. Consortium/LINL at: www-bio.llnl.gov/btrap/image/image.html		
Seq primer: -40UP from Gibco		
High quality sequence stop: 461.		
location,Qualifiers		
1. .529		
/organism="Homo sapiens"		
/mol_type="mRNA"		
/db_xref="Taxon:9606"		
/clone="IMAGE:2398879"		
/tissue_type="2 Pooled tumors (clear cell type)"		
/lab_hos="DHIO"		
/clone_lib="NCI CGAP_Kid12"		
/note="Organ: kidney; Vector: PTT3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI CGAP_Kid15 was prepared, and ss circles were made in vitro. Following RAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1323912..1325831, 1471568..1472903 and 1492014..1493255). Subtraction by Bento Soares and M. Ratima Borraldo."		
RESULT 9		
QY	1 GGTGACTACCGGGTGAACGGGATT 27	BB474984
Db	197 GTTGACGCCGAGACGGGATT 223	BB474984
FEATURES		
source		
ORGANISM		
Brassica oleracea		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
1 (bases 1 to 699)		
Contact: Chris Town		
Email: cdtown@tigr.org		
9712 Medical Center Drive, Rockville, MD 20850, USA.		
Tel: 301-838-3523		
Fax: 301-838-0208		
DNA is from a doubled haploid provided by Tom Osborn. Seq primer: T# Class: sheared ends.		
FEATURES		
source		
ORGANISM		
Homo sapiens (human)		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
1. .699		
/organism="Brassica oleracea"		
/mol_type="genomic DNA"		
/strain="TO000H3"		
/ab_xref="Taxon:3712"		
/clone="BOCPA32"		
/clone_lib="BOGE"		
/note="Vector: pHOS1; Site 1: BstX1; 2-3 kb sheared genomic DNA inserted into pHOS1 using BstX1 linkers"		
RESULT 10		
QY	1 GGTGACTACCGGGTGAACGGGATT 27	BB474984
Db	191 GGTTGATTCGGCGGGAGAAGGGGCTT 217	BB474984
FEATURES		
source		
ORGANISM		
Brassica oleracea		
REFERENCE		
AUTHORS		

Nash, W., Rabinowicz, P.D. and Wilson, R.K.
Whole genome shotgun reads from *Brassica oleracea*

JOURNAL
Unpublished (2002)

COMMENT
Contact: Richard K. Wilson
Genome Sequencing Center
Washington University School of Medicine
Email: submissions@watsen.wustl.edu
Plate: odhil row: f column: 07
Seq primer: -2BREPOT -reverse
Class: shotgun
High quality sequence start: 17
High quality sequence stop: 551.

FEATURES
source

Query Match 1. -699
Best Local Similarity 81.5%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/organism="Brassica oleracea"
'mol_type="genomic DNA"
'db_xref="taxon:3712"
'clone_lib="B oleracea002"
'note="vector: pCW13; Whole genome shotgun library from
flowering buds. DNA was purified from a crude nuclear
prep using *Brassica oleracea* T0100DH3 buds provided by
Thomas Osborn at the University of Wisconsin. Genomic
DNA was provided by Pablo Rabinowicz (CSHL) and the
shotgun library prepared at Washington University Genome
Sequencing Center."

ORIGIN

Query Match 70.4%; Score 19; DB 8; Length 725;
Best Local Similarity 81.5%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/organism="Brassica oleracea"
'mol_type="genomic DNA"
'db_xref="taxon:3712"
'clone_lib="B oleracea002"
'note="vector: pCW13; Whole genome shotgun library from
flowering buds. DNA was purified from a crude nuclear
prep using *Brassica oleracea* T0100DH3 buds provided by
Thomas Osborn at the University of Wisconsin. Genomic
DNA was provided by Pablo Rabinowicz (CSHL) and the
shotgun library prepared at Washington University Genome
Sequencing Center."

RESULT 12

LOCUS CA496206/c 842 bp mRNA linear EST 14-NOV-2002
DEFINITION AGENTCOURT 10811996 NCI CGAP ZK11 Danio rerio cDNA clone
IMAGE:6718315, mRNA sequence.
ACCESSION CA496206
VERSION CA496206.1 GR:24959287
KEYWORDS EST
SOURCE Danio rerio (zebrafish)
ORGANISM Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Danio.
REFERENCE NIH-MGC http://mgc.nci.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: craigs_r@mail.nih.gov
Tissue Procurement: Leonard I. Zon, M.D.
DNA Library Preparation: Invitrogen Corp
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINT)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINT at:
http://image.lnl.nih.gov
Plate: LUM14296 row: b column: 22
High quality sequence stop: 641.

FEATURES
source

Query Match 1. -842
Best Local Similarity 81.5%; Pred. No. 5.8e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/organism="Danio rerio"
'mol_type="mRNA"
'db_xref="taxon:7955"
'clone="IMAGE:671831"
'lab_host=DH10B (T1R-resistant)"
'clone_lib="NCI CGAP ZK11"
'note="Organ: kidney; Vector: pCMV-SPORR6.1; Site 1:
ECORV; Site 2: NotI; Cloned unidirectionally. Primer: J.
Oligo dT. Average insert size 1.8 kb. Constructed by J.
Wang (Research Genetics, Invivogen Corp) from tissue
donated by L. Zon (Harvard University). Note: this is a
NCI CGAP Library."

ORIGIN

Query Match 70.4%; Score 19; DB 6; Length 842;
Best Local Similarity 81.5%; Pred. No. 5.8e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/organism="Brassica oleracea"
'mol_type="genomic DNA"
'strain="T0100DH3"
'db_xref="taxon:3712"
'clone="B OLEY61"
'clone_lib="BOGY"
'note="vector: pHS01; Site 1: BstXI; 2-3 kb sheared
genomic DNA inserted into pHS01 using BstXI linkers"

RESULT 13

LOCUS CF879332 716 bp mRNA linear EST 31-OCT-2003
DEFINITION tric080xd08_b1 T.reesei mycelial culture, Version 6 October 2003
Hypocreah jecorina cDNA clone tric080xd08, mRNA sequence.
ACCESSION CF879332
VERSION CF879332.1 GI:38134014
KEYWORDS EST
SOURCE Hypocreah jecorina (anamorph: Trichoderma reesei)

FEATURES
source

Query Match 1. -725
Best Local Similarity 81.5%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
/organism="Brassica oleracea"
'mol_type="genomic DNA"
'strain="T0100DH3"
'db_xref="taxon:3712"
'clone="B OLEY61"
'clone_lib="BOGY"
'note="vector: pHS01; Site 1: BstXI; 2-3 kb sheared
genomic DNA inserted into pHS01 using BstXI linkers"

REFERENCE	Hypocreale; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Hypocreaceae; Hypocreae.
AUTHORS	Ward, M. and Dean, R.A.
TITLE	Characterization of the protein processing and secretion pathways in <i>Trichoderma reesei</i>
JOURNAL	FEBS Microbiol. Lett. 230 (2), 275-282 (2004)
COMMENT	Contact: Ralph A. Dean
ORGANISM	Fungal Genomics Laboratory North Carolina State University Campus Box 7251, Raleigh, NC 27695, USA Tel: 919-513-0020 Fax: 919-513-0024 Email: ralph_dean@ncsu.edu
SOURCE	Seq primer: LT-F1 primer. Location/Qualifiers 1. .716
FEATURES	1. organism="Hypocreae jecorina" /mol_type="mRNA" /strain="QIGa" /db_xref="taxon:51453" (clone="tric080xd08" (dev_stage="mycelia" (clone_lib="T.reesei mycelial culture, Version 3 april" /note="Vector: PR3PY; Site_1: Not I/Sal I; Mycelial culture grown from 24 hrs to 6 days with varying Carbon and Nitrogen sources and concentrations." RIGIN'
Query Match	Score 18.6; DB 7; Length 771;
Best Local Similarity	68.9%; Score 18.6; DB 6; Length 771;
Matches	21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
DEFINITION	Best Local Similarity 84.0%; Pred. No. 8.8e+02; Mismatches 4; Indels 0; Gaps 0;
ACCESION	BX368969
VERSION	BX368969.2
KEYWORDS	EST
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 790)
REFERENCE	1 (bases 1 to 790)
AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polyes, D.
TITLE	Full-length cDNA libraries and normalization
COMMENT	Unpublished (2001) On May 6, 2003 this sequence version replaced gi:30447801. Contact: Genoscope - Centre National de Séquençage
RESULT	15
LOCUS	BX368969
DEFINITION	790 bp mRNA linear EST 26-APR-2004
ACCESION	BX368969
VERSION	BX368969.2
KEYWORDS	EST
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 790)
REFERENCE	1 (bases 1 to 790)
AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polyes, D.
TITLE	Full-length cDNA libraries and normalization
COMMENT	Unpublished (2001) On May 6, 2003 this sequence version replaced gi:30447801. Contact: Genoscope - Centre National de Séquençage
RESULT	14
LOCUS	BX368969
DEFINITION	790 bp mRNA linear EST 02-JUL-2003
ACCESION	BX368969
VERSION	BX368969.1
KEYWORDS	EST
SOURCE	CB906760.1 GR:30121418
ORGANISM	Hypocreae jecorina (anamorph: <i>Trichoderma reesei</i>)
REFERENCE	CB906760
AUTHORS	Foreman, P.K., Brown, D.E., Danimeyer, J., Dean, R., Diener, S., Dunn-Coleman, N.S., Goedebuer, F., Houfek, T.D., England, G.J., Kelley, A.S., Meerman, H.J., Mitchell, T., Hutchinson, C., Olivares, H.A., Reunissen, P.J., Yao, J. and Ward, M.
TITLE	Transcriptional regulation of biomass-degrading enzymes in the filamentous fungus <i>Trichoderma reesei</i>
JOURNAL	J. Biol. Chem. 278 (34), 31988-31997 (2003)
MEDLINE	2280314
PURPOSE	12788920
COMMENT	Contact: Pamela K. Foreman
ORGANISM	Genencor Intl.
REFERENCE	925 Page Mill Road, Palo Alto, CA 94304, USA
AUTHORS	Tel: (650) 846-7635 Fax: (650) 621-7817 Email: Foreman@genencor.com
TITLE	Seq primer: LT-F1 primer
JOURNAL	Location/Qualifiers
MEDLINE	1 GGTGACGGACGGGTGACGGGAA 25
PURPOSE	
COMMENT	
ORGANISM	
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Tue Nov 30 08:47:09 2004

Db 410 GGGATTCACAGGGCACGGCA 386
||||| ||||| ||| | ||||| |||

Search completed: November 29, 2004, 15:11:27
Job time : 2986 secs



GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 13:45:01 ; Search time 1663 Seconds
 (without alignments) 767.782 Million cell updates/sec

Title: US-10-073-064-2

Perfect score: 27

Sequence: 1 GGTGACTACCGGGTGAACGGGCGATT 27

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl:*

1: gb_ba:*

2: gp_ntg:*

3: gb_in:*

4: gb_cm:*

5: gb_cv:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gp_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_vl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	27	100.0	27	6 AR009136 Sequence
2	27	100.0	27	6 AR009136 Sequence
3	23	85.2	57	6 AX02296 Sequence
4	23	85.2	57	6 AX02296 Sequence
5	23	85.2	57	6 AX00465 Sequence
6	23	85.2	597	6 AX10465 Sequence
7	23	85.2	597	6 AX13404 Sequence
8	23	83.1	9	9 AX13404 Regulatory
9	23	85.2	884	9 AX126068 Sequence
10	23	85.2	1384	12 AR105218 Homo sapien
11	23	85.2	1386	12 AR105219 Mus musculus
12	23	85.2	12	12 AR044306 Artifia
13	23	85.2	164168	9 AL135927 Human DNA
14	23	85.2	164179	9 AC007227 Homo sapien
15	20.2	74.8	95687	5 BX511245 Zebrafish
16	20.2	74.8	180506	2 BX005403 Danio rerio
17	20.2	74.8	275351	2 AC117883 Rattus norvegicus
18	19.8	73.3	267431	2 AC142799 Macaca mulatta
19	19.6	72.6	13203	6 CQ614669 Sequence

ALIGNMENTS

Query	Match Length	DB ID	Description	RESULT 1	RESULT 2
1 GGTGACTACCGGGTGAACGGGCGATT	27	6 AR009136 Sequence	AR009136 Sequence	AR009136	1 GGTGACTACCGGGTGAACGGGCGATT
2	27	6 AR009136 Sequence	2 from patent US 5756264.	27 bp	27
3	27	6 AR009136 Sequence	Expression vector systems and method of use	DNA	27 bp
4	27	6 AR009136 Sequence	Patent: US 5756264-A 25 May-1998;	linear	27 bp
5	27	6 AR009136 Sequence	Location/Qualifiers	PAT 04-DEC-1998	27 bp
6	27	6 AR009136 Sequence	1. 27		27 bp
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AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

AC021209 Homo sapi

AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

AC021209 Homo sapi

AC008184 Drosoph

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AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

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AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

AC021209 Homo sapi

AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

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AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

AC021209 Homo sapi

AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

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AC11667 Homo sapi

BX05201 Zebrafish

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AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

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AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

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BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

AC021209 Homo sapi

AC008184 Drosoph

AC012857 Drosoph

AC006590 Drosoph

AC119429 Homo sapi

BX322377 Homo sapi

AL935211 Zebrafish

BX048644 Zebrafish

AC19562 Drosoph

BX50208 Drosoph

AL157384 Human DNA

AC138024 Homo sapi

BX97325 Danio rer

BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

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BX05201 Zebrafish

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BX322377 Homo sapi

AL935211 Zebrafish

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BX97124 Danio rer

AL95866 Zebrafish

AC00649 Drosoph

AC039725 Drosoph

CR456222 Danio rer

AC11667 Homo sapi

BX05201 Zebrafish

JOURNAL Patent: US 6361984-A 2 26-MAR-2002;
 FEATURES location/Qualifiers
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 Best Local Similarity 100.0%; Pred. No. 62; Length 57;
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 /organism="unknown"
 /mol_type="unassigned DNA"
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 Db 56 GGTGACTCACCGGGTGAACGGGG 34

RESULT 3
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 LOCUS AX100465 57 bp DNA linear PAT 10-APR-2001
 DEFINITION Sequence 6 from Patent WO0121649.
 ACCESSION AX100465
 VERSION AX100465.1 GI:13619490
 KEYWORDS
 SOURCE
 ORGANISM Homo sapiens (human)
 Mammalia; Butheria; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 AUTHORS Adams, J.S.
 TITLE Nucleic acids encoding vitamin d response element binding proteins,
 products related thereto, and methods of using same
 JOURNAL Patent: WO 0121649-A 6 29-MAR-2001;
 CEDARS-SINAI MEDICAL CENTER (US)
 FEATURES location/Qualifiers
 1. .57
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"
 ORIGIN
 Query Match 85.2%; Score 23; DB 6; Length 57;
 Best Local Similarity 100.0%; Pred. No. 62; Length 57;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 3 GGTGACTCACCGGGTGAACGGGG 25

RESULT 4
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 LOCUS AX100465 57 bp DNA linear PAT 10-APR-2001
 DEFINITION Sequence 6 from Patent WO0121649.
 ACCESSION AX100465
 VERSION AX100465.1 GI:13619490
 KEYWORDS
 SOURCE
 ORGANISM Homo sapiens (human)
 Mammalia; Butheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Metazoa; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 AUTHORS Adams, J.S.
 TITLE Nucleic acids encoding vitamin d response element binding proteins,
 products related thereto, and methods of using same
 JOURNAL Patent: WO 0121649-A 6 29-MAR-2001;
 CEDARS-SINAI MEDICAL CENTER (US)
 FEATURES location/Qualifiers
 1. .57
 /organism="Homo sapiens"
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 /db_xref="taxon:9606"
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 Query Match 85.2%; Score 23; DB 6; Length 57;
 Best Local Similarity 100.0%; Pred. No. 42; Length 57;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GGTGACTCACCGGGTGAACGGGG 23
 Db 65 GGTGACTCACCGGGTGAACGGGG 87

RESULT 5
 E13404
 LOCUS E13404 597 bp DNA linear PAT 27-APR-1998
 DEFINITION Regulatory region of human osteocalcin gene.
 ACCESSION E13404
 VERSION E13404.1 GI:252209
 KEYWORDS
 SOURCE
 ORGANISM Homo sapiens (human)
 Mammalia; Butheria; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 AUTHORS Negishi, Y., Kajiyama, N. and Kawachi, R.
 TITLE RECOMBINANT VECTOR, CELL TRANSFORMED THEREBY, AND MEASUREMENT OF
 BONE METABOLISM CONTROL ACTIVITY OF VITAMIN D DERIVATIVE USING THE
 Patent: JP 1997182586-A 1 15-JUL-1997;
 S R L:K
 OS Homo sapiens (human)
 PN JP 1997182586-A/1
 PD 15-TUL-1997
 PF 29-DEC-1995 JP 1995352817
 PI NEGISHI YOICHI, KAJIYAMA NAKI, KAWACHI RYUJI PC
 C12N15/09, C12N5/10, C12P21/02, G01N33/62, (C12P21/02, C12R1.91); CC
 Strandedness: Double;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
 FH Key location/Qualifiers
 FH source 1. .597
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 FT /cell_type="osteoblast",
 FT /clone="OST-BETA-gal",
 FT promoter 1. .597
 FT /note="human osteocalcin gene promoter".
 FEATURES location/Qualifiers
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 Best Local Similarity 100.0%; Pred. No. 42; Length 597;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 65 GGTGACTCACCGGGTGAACGGGG 87

RESULT 6
 AX226068
 LOCUS AX226068 597 bp DNA linear PAT 10-SEP-2001
 DEFINITION Sequence 3 from Patent WO0160983.
 ACCESSION AX226068
 VERSION AX226068.1 GI:1555393
 KEYWORDS
 SOURCE
 ORGANISM Homo sapiens (human)
 Mammalia; Butheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 AUTHORS Keeping, H.S. and Reichner, J.S.


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repeat_region /rpt_family="Alu" complement(7069. .7507)
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repeat_region /rpt_family="Alu" complement(11237. .11737)
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repeat_region /rpt_family="Alu" complement(13383. .14286)
repeat_region /rpt_family="Alu" complement(14310. .14594)
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repeat_region /rpt_family="Alu" complement(19255. .19569)
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repeat_region /note="EST28885 Cerebellum II Homosapiens cDNA (AA325805)" 25847. .25930
repeat_region /note="GRAIL 2 excellent exon, frame 1" 2587. .27873
repeat_region /rpt_family="Alu" 30267. .30394
repeat_region /note="GRAIL 2 excellent exon, frame 2" join(30610. .60686, 31242. .31321, 31559. .31721, 32071. .32187)
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repeat_region /rpt_family="Alu" complement(join(36901. .37900, 39601. .40600, 41345. .41500, 42267. .42400, 45881. .46000, 49500. .49782, 52201. .53200))
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repeat_region /rpt_family="Alu" complement(42295. .42527)
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Query Match 85.2%; Score 23; DB 9; length 164179;
Best Local Similarity 100.0%; Pred 16; Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 GGTGACCTACCGGGTAAACGGGG 23
Db 34807 GGTGACCTACCGGGTAAACGGGG 34785

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Search completed: November 29, 2004, 14:14:41
 Job time : 1667 secs

BX511245 BX511245 95687 bp DNA linear VRT 21-JUL-2004
 LOCUS Zebrafish DNA sequence from clone CH211-125016 in linkage group 17,
 DEFINITION complete sequence.
 ACCESSION BX511245
 VERSION BX511245.5 GI:50470853
 KEYWORDS HTG.
 SOURCE Danio rerio (zebrafish)
 ORGANISM Danio rerio
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Cypriniformes; Cyprinidae; Danio.
 1 (bases 1 to 95687)
 REFERENCE
 AUTHORS Phillipine, B.
 JOURNAL Direct Submission
 TITLE Submitted (20-JUL-2004) Wellcome Trust Sanger Institute, Hinxton,
 Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
 zfish-help@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
 COMMENT On Jul 21, 2004 this sequence version replaced gi:50080055.
 ----- Genome Center
 Center: Wellcome Trust Sanger Institute
 Center code: SC
 Web site: <http://www.sanger.ac.uk>
 Contact: zfish-help@sanger.ac.uk

 Center code: SC
 Web site: <http://www.sanger.ac.uk>
 Contact: zfish-help@sanger.ac.uk

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations.

together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows: unless otherwise noted, all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EML:, Sm:, SWISSPROT:, Tr:, TREMBL:, Wp:, WORMPEP:, Information on the WORMPEP database can be found at <http://www.sanger.ac.uk/Projects/elephant/wormpep> Clone-derived zebrafish pUC subclones occasionally display inconsistency over the length of mononucleotide A/T runs and conserved T/A repeats. Where this is found the longest good quality representation will be submitted.

Repeat names beginning 'Dr' were identified by the Recon repeat discovery system (Zhirong Bao and Sean Eddy, submitted), and those beginning 'dr' were identified by Rick Waterman (Stephen Johnson lab, WashU). For further information see http://www.sanger.ac.uk/Projects/D_rerio/fishmask.shtml
 CH211-125016 is from a CHORI-211/BAC library

VECTOR: PTABac2.1
 FEATURES
 source

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 Db 10650 TGACACACGGTGTGAATGGGCAATT 10674

